JPL Earth Occultation Analysis of the Galactic Center Region During Flaring of 1E1740.7-2942

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The Galactic center low-energy gamma-ray source 1E1740.7-2942, is one of the most interesting and mysterious sources in high-energy astrophysics. On 13-14 October 1990 the SIGMA telescope detected a broad feature attributed to annihilation of thermal electron-positron pairs, possibly in the jets. A similar feature bas been reported twice subsequently by SIGMA: during 1-19 October 1991 and 19-20 September 1992, albeit both at a lower significant level. Using data becoming available from the Enhanced BATSE Occultation Package (111101]) at JPL, which allows continous monitoring of low-energy gamma-ray sources, we compare BATSE observations with those from SIGMA and OSSE.

Poster Paper Requested (Note: paper will be presented by co-author J.C. Ling)

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